

517056

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number  
**WO 2004/047003 A1**

(51) International Patent Classification<sup>7</sup>: **G06K 7/00**, 19/07

(72) Inventor; and

(21) International Application Number:  
**PCT/JP2003/014607**

(75) Inventor/Applicant (for US only): NAKABE, Futoshi [JP/JP]; 8-22-14, Nishihara, Asaminami-ku, Hiroshima-shi, Hiroshima 731-0113 (JP).

(22) International Filing Date:  
17 November 2003 (17.11.2003)

(74) Agent: FUKUI, Toyoaki; Room 860, Uchihonmachi Matsuya Bldg.10th, 1-19, Uchihonmachi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-0026 (JP).

(25) Filing Language:

English

(81) Designated States (national): CN, KR, US.

(26) Publication Language:

English

(84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(30) Priority Data:  
**NO.2002-335659**

19 November 2002 (19.11.2002) JP

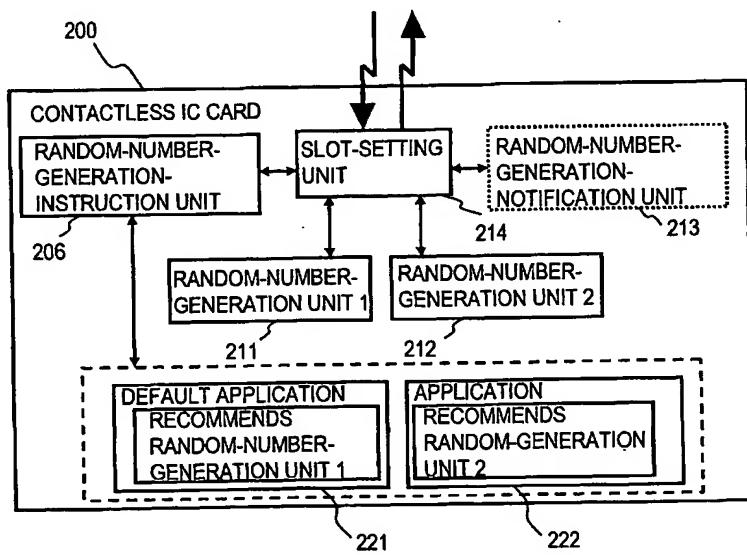
Published:

— with international search report

(71) Applicant (for all designated States except US): MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza kadoma, Kadoma-shi, Osaka 571-8501 (JP).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CONTACTLESS IC CARD



**WO 2004/047003 A1**

(57) Abstract: This invention prevents delays that occur when a reader/writer identifies contactless IC cards when there is a plurality of contactless IC cards in the communication area of the reader/writer, or in other words, prevents collisions between initial responses when the contactless IC cards perform initial responses. The contactless IC card comprises a plurality of random-number-generation units that generate a random number for setting a slot; and a random-number-generation-instruction unit designates the random-number-generation unit from among the plurality of random-number-generation units to be used for performing a response. A slot-setting unit uses the random number generated by the random-number-generation unit that was specified by the random-number-generation-instruction unit and performs a response to the reader/writer.